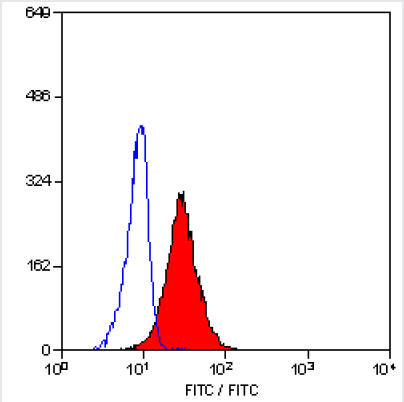
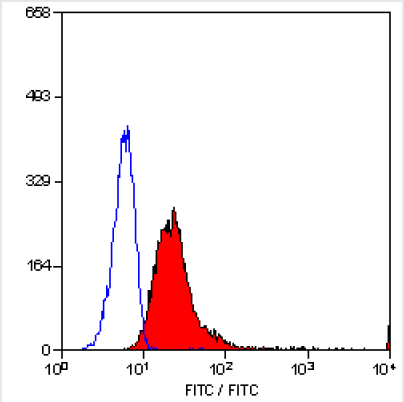
CD10 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

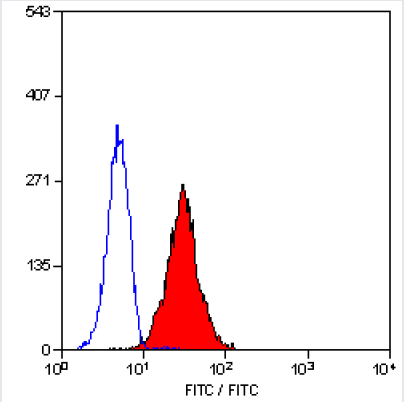
Product Name	CD10, Monoclonal Antibody
Full Product Name	MOUSE ANTI HUMAN CD10:FITC
Product Gene Name	anti-CD10 antibody
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SN5c
Host	Mouse
Form/Format	FITC Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid
Concentration	IgG concentration 0.1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.
Molecular Weight	85,514 Da
OMIM	120520
3D Structure	ModBase 3D Structure for P08473
Perservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin Preparation||Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Immunogen	Partially purified cell membrane antigens from fresh leukemia cells. Fusion Partners||Spleen cells from immunised BALB/c mice were fused with cells of the mouse PS/NS1/1-Ag4-1 myeloma cell line. Buffer Solution||Phosphate buffered saline
Target Species	Human
Applications Tested/Suitable for anti-CD10 antibody	Flow cytometry (FC/FACS)
Application Notes for anti-CD10 antibody	Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. **Flow Cytometry:** Maximum Dilution: Neat
Related Product Information for anti-CD10 antibody	Mouse anti Human CD10 antibody, clone SN5c recognizes the human CD10 cell surface antigen, a 100kDa glycoprotein expressed by acute lymphoblastic leukaemia cells and by peripheral blood granulocytes. CD10 is also known as the Common Acute Lymphoblastic Leukaemia Antigen (CALLA).
Other Notes	Small volumes of anti-CD10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CD10 purchase	MBS210725 is an antibody targeting CD10. Also known as MOUSE ANTI HUMAN CD10:FITC. Host: Mouse.



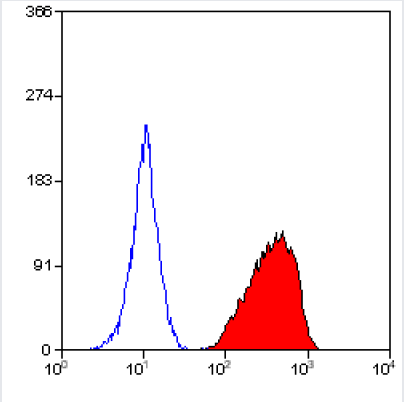
Testing Data of anti-CD10 antibody
Staining of human peripheral blood granulocytes with Mouse anti Human CD10:Azide Free (MBS210164)



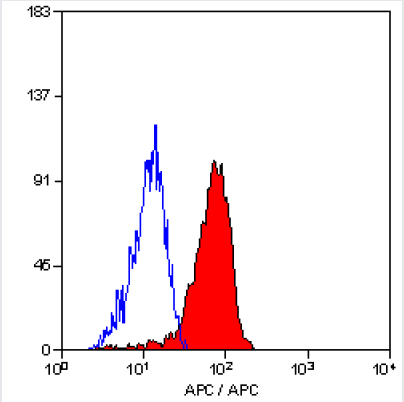
Testing Data of anti-CD10 antibody
Staining of human peripheral blood granulocytes with Mouse anti Human CD10:Biotin (MBS210346)



Testing Data of anti-CD10 antibody
Staining of human peripheral blood granulocytes with Mouse anti Human CD10:FITC



Testing Data of anti-CD10 antibody
Staining of NALM6 cells with Mouse anti Human CD10:Alexa Fluor Fluor 488 (MBS212206A488)



Testing Data of anti-CD10 antibody
Staining of human peripheral blood granulocytes with Mouse anti Human CD10:APC (MBS210014)

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD10. It may not necessarily be applicable to this product.

NCBI GI #	116256329
NCBI GeneID	4311
NCBI Accession #	NP_000893.2
UniProt Primary Accession #	P08473

UniProt Secondary Accession #	Q3MIX4; A8K6U6; D3DNJ9
UniProt Related Accession #	P08473
GenBank Nucleotide #	NM_000902.3
NCBI Official Full Name	neprilysin
NCBI Official Synonym Full Names	membrane metallo-endopeptidase
NCBI Official Symbol	MME
NCBI Official Synonym Symbols	NEP; SFE; CD10; CALLA
UniProt Protein Name	Neprilysin
UniProt Synonym Protein Names	Atriopeptidase; Common acute lymphocytic leukemia antigen; CALLA; Enkephalinase; Neutral endopeptidase 24.11; NEP; Neutral endopeptidase; Skin fibroblast elastase; SFE; CD_antigen: CD10
Protein Family	CD109 antigen
UniProt Gene Name	MME
UniProt Synonym Gene Names	EPN; CALLA; NEP; Neutral endopeptidase; SFE
UniProt Entry Name	NEP_HUMAN
NCBI Protein Information	neprilysin; atriopeptidase; common acute lymphocytic leukemia antigen; enkephalinase; membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase); membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10); membrane metallo-endopeptidase variant 1; membrane metallo-endopeptidase variant 2; neprilysin-390; neprilysin-411; neutral endopeptidase 24.11; skin fibroblast elastase
NCBI Summary for CD10	This gene encodes a common acute lymphocytic leukemia antigen that is an important cell surface marker in the diagnosis of human acute lymphocytic leukemia (ALL). This protein is present on leukemic cells of pre-B phenotype, which represent 85% of cases of ALL. This protein is not restricted to leukemic cells, however, and is found on a variety of normal tissues. It is a glycoprotein that is particularly abundant in kidney, where it is present on the brush border of proximal tubules and on glomerular epithelium. The protein is a neutral endopeptidase that cleaves peptides at the amino side of hydrophobic residues and inactivates several peptide hormones including glucagon, enkephalins, substance P, neurotensin, oxytocin, and bradykinin. This gene, which encodes a 100-kD type II transmembrane glycoprotein, exists in a single copy of greater than 45 kb. The 5' untranslated region of this gene is alternatively spliced, resulting in four separate mRNA transcripts. The coding region is not affected by alternative splicing. [provided by RefSeq, Jul 2008]
UniProt Comments for CD10	CD10: Thermolysin-like specificity, but is almost confined on acting on polypeptides of up to 30 amino acids. Biologically important in the destruction of opioid peptides such as Met- and Leu-enkephalins by cleavage of a Gly-Phe bond. Able to cleave angiotensin-1, angiotensin-2 and angiotensin 1-9. Involved in the degradation of atrial natriuretic factor (ANF). Displays UV- inducible elastase activity toward skin preelastic and elastic fibers. Inhibited in a dose dependent manner by opiorphin. Belongs to the peptidase M13 family. Protein type: Protease; Membrane protein, integral; EC 3.4.24.11 Chromosomal Location of Human Ortholog: 3q25.2 Cellular Component: synaptic vesicle; focal adhesion; integral to plasma membrane; axon; dendrite; cytoplasm; integral to membrane; plasma membrane; synapse; brush border Molecular Function: protein binding; zinc ion binding; metalloendopeptidase activity; endopeptidase activity; exopeptidase activity; peptide binding Biological Process: cellular protein metabolic process; peptide metabolic process; beta-amyloid metabolic process; creatinine metabolic process; sensory perception of pain; kidney development; proteolysis; angiotensin maturation Disease: Membranous Nephropathy, Susceptibility To
Research Articles on CD10	**1.** Serum CD10 levels might serve as a useful marker of synchronous and metachronous liver metastasis in colorectal cancer.

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